Arvet A Pedas

List of Publications by Year
in descending order

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62 papers	1,135 citations	331538 21 h-index	395590 33 g-index
65 all docs	65 docs citations	65 times ranked	368 citing authors

#	Article	IF	Citations
1	High order methods for multi-term fractional integro-differential equations with weakly singular kernels. AIP Conference Proceedings, 2022, , .	0.3	0
2	Central part interpolation schemes for a class of fractional initial value problems. Acta Et Commentationes Universitatis Tartuensis De Mathematica, 2022, 26, 161-178.	0.1	0
3	Spline Collocation for Multi-Term Fractional Integro-Differential Equations with Weakly Singular Kernels. Fractal and Fractional, 2021, 5, 90.	1.6	7
4	Numerical solution of linear fractional weakly singular integro-differential equations with integral boundary conditions. Applied Numerical Mathematics, 2020, 149, 124-140.	1.2	10
5	A Quasi-Fast Solver for Weakly Singular Integral Equations of the Second Kind. Numerical Functional Analysis and Optimization, 2020, 41, 850-870.	0.6	1
6	Integral equations of the third kind in L^p spaces. Journal of Integral Equations and Applications, 2020, 32, .	0.2	1
7	Numerical solution of fractional integro-differential equations with weakly singular kernels. AIP Conference Proceedings, 2019, , .	0.3	2
8	Numerical solution of fractional integro-differential equations with non-local boundary conditions. AIP Conference Proceedings, 2018, , .	0.3	1
9	FAST SOLVERS OF WEAKLY SINGULAR INTEGRAL EQUATIONS OF THE SECOND KIND. Mathematical Modelling and Analysis, 2018, 23, 639-664.	0.7	3
10	Central part interpolation schemes for integral equations with singularities. Journal of Integral Equations and Applications, 2017, 29, .	0.2	5
11	Spline collocation for a class of nonlinear fractional boundary value problems. AIP Conference Proceedings, 2017, , .	0.3	0
12	Smoothing transformation and spline collocation for weakly singular Volterra integro-differential equations. Applied Numerical Mathematics, 2017, 114, 63-76.	1.2	20
13	Smoothing transformation and spline collocation for nonlinear fractional initial and boundary value problems. Journal of Computational and Applied Mathematics, 2017, 317, 1-16.	1.1	22
14	Spline collocation for fractional weakly singular integro-differential equations. Applied Numerical Mathematics, 2016, 110, 204-214.	1.2	24
15	Smoothing transformation and spline collocation for linear fractional boundary value problems. Applied Mathematics and Computation, 2016, 283, 234-250.	1.4	10
16	A Smooth Solution of a Singular Fractional Differential Equation. Zeitschrift Fur Analysis Und Ihre Anwendung, 2015, 34, 127-146.	0.8	7
17	Modified spline collocation for linear fractional differential equations. Journal of Computational and Applied Mathematics, 2015, 283, 28-40.	1.1	22
18	Spline Collocation for Fractional Integro-Differential Equations. Lecture Notes in Computer Science, 2015, , 315-322.	1.0	1

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19	2015, , .	0.3	0
20	Spline collocation for nonlinear fractional boundary value problems. Applied Mathematics and Computation, 2014, 244, 502-513.	1.4	23
21	Numerical solution of nonlinear fractional differential equations by spline collocation methods. Journal of Computational and Applied Mathematics, 2014, 255, 216-230.	1.1	79
22	Numerical solution of Volterra integral equations with singularities. Frontiers of Mathematics in China, 2013, 8, 239-259.	0.4	17
23	Numerical solution of an initial value problem for nonlinear fractional differential equations. , 2013, , .		0
24	On the regularity of solutions of nonlinear integral equations. , 2013, , .		0
25	What is the complexity of weakly singular integral equations?. , 2012, , .		0
26	Smoothing transformation and cubic spline collocation for weakly singular Fredholm integral equations with boundary singularities. , 2012, , .		0
27	Piecewise polynomial collocation for linear boundary value problems of fractional differential equations. Journal of Computational and Applied Mathematics, 2012, 236, 3349-3359.	1.1	81
28	Nystroem Type Methods for a Class of Logarithmic Singular Fredholm Integral Equations. , 2011, , .		3
29	On the convergence of spline collocation methods for solving fractional differential equations. Journal of Computational and Applied Mathematics, 2011, 235, 3502-3514.	1.1	70
30	Spline collocation methods for linear multi-term fractional differential equations. Journal of Computational and Applied Mathematics, 2011, 236, 167-176.	1.1	70
31	A discrete collocation method for Fredholm integro-differential equations with weakly singular kernels. Applied Numerical Mathematics, 2011, 61, 738-751.	1.2	18
32	PRODUCT INTEGRATION FOR WEAKLY SINGULAR INTEGRO-DIFFERENTIAL EQUATIONS. Mathematical Modelling and Analysis, 2011, 16, 153-172.	0.7	9
33	NystrÃ¶m type methods for Fredholm integral equations with weak singularities. Journal of Computational and Applied Mathematics, 2010, 234, 2848-2858.	1.1	25
34	Piecewise Polynomial Collocation Methods for Fractional Differential Equations. , 2010, , .		0
35	Numerical Solution of Volterra Integral Equations with Weak Singularities. , 2010, , 507-514.		1
36	A Collocation Method for Volterra Integral Equations with Diagonal and Boundary Singularities. , 2009, , .		0

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37	NUMERICAL SOLUTION OF VOLTERRA INTEGRAL EQUATIONS WITH WEAKLY SINGULAR KERNELS WHICH MAY HAVE A BOUNDARY SINGULARITY. Mathematical Modelling and Analysis, 2009, 14, 79-89.	0.7	25
38	Smoothing and Quadratic Spline Collocation Method for Weakly Singular Integral Equations. , 2009, , .		0
39	On the regularity of solutions to integral equations with nonsmooth kernels on a union of open intervals. Journal of Computational and Applied Mathematics, 2009, 229, 440-451.	1.1	13
40	Quadratic Spline Collocation for the Smoothed Weakly Singular Fredholm Integral Equations. Numerical Functional Analysis and Optimization, 2009, 30, 1048-1064.	0.6	2
41	A Tribute to Gennadi Vainikko. Numerical Functional Analysis and Optimization, 2009, 30, 896-902.	0.6	0
42	High-Order Methods for Volterra Integral Equations with General Weak Singularities. Numerical Functional Analysis and Optimization, 2009, 30, 1002-1024.	0.6	29
43	What is the complexity of periodic weakly singular integral equations?. BIT Numerical Mathematics, 2008, 48, 315-335.	1.0	3
44	Discrete Galerkin method for Fredholm integro-differential equations with weakly singular kernels. Journal of Computational and Applied Mathematics, 2008, 213, 111-126.	1.1	29
45	Gennadi Vainikko â€" 70. Computational Methods in Applied Mathematics, 2008, 8, 203-206.	0.4	0
46	Numerical Solution of Fredholm Integral Equations with Diagonal and Boundary Singularities. AIP Conference Proceedings, 2007, , .	0.3	2
47	Integral Equations with Diagonal and Boundary Singularities of the Kernel. Zeitschrift Fur Analysis Und Ihre Anwendung, 2006, 25, 487-516.	0.8	33
48	Spline collocation method for integro-differential equations with weakly singular kernels. Journal of Computational and Applied Mathematics, 2006, 197, 253-269.	1.1	40
49	Smoothing transformation and piecewise polynomial projection methods for weakly singular Fredholm integral equations. Communications on Pure and Applied Analysis, 2006, 5, 395-413.	0.4	29
50	Piecewise Polynomial Collocation for Fredholm Integro-Differential Equations with Weakly Singular Kernels. SIAM Journal on Numerical Analysis, 2005, 43, 1897-1911.	1.1	29
51	Smoothing Transformation and Piecewise Polynomial Collocation for Weakly Singular Volterra Integral Equations. Computing (Vienna/New York), 2004, 73, 271-293.	3.2	59
52	On the approximate solution of weakly singular integro-differential equations of Volterra type. Differential Equations, 2004, 40, 1345-1353.	0.1	1
53	Piecewise Polynomial Approximations for Linear Volterra Integro-Differential Equations with Nonsmooth Kernels. , 2004, , 677-686.		1
54	The Collocation Method with Parabolic Splines for Integral Equations with Singularities. Differential Equations, 2003, 39, 1343-1352.	0.1	1

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55	Piecewise Polynomial Collocation Methods for Linear Volterra Integro-Differential Equations with Weakly Singular Kernels. SIAM Journal on Numerical Analysis, 2001, 39, 957-982.	1.1	122
56	Title is missing!. BIT Numerical Mathematics, 2001, 41, 891-900.	1.0	22
57	The Cubic Spline-Collocation Method for Weakly Singular Integral Equations. Differential Equations, 2001, 37, 1491-1500.	0.1	2
58	The piecewise polynomial collocation method for nonlinear weakly singular Volterra equations. Mathematics of Computation, 1999, 68, 1079-1096.	1.1	117
59	NUMERICAL SOLUTIONS AND THEIR SUPERCONVERGENCE FOR WEAKLY SINGULAR INTEGRAL EQUATIONS WITH DISCONTINUOUS COEFFICIENTS. Mathematical Modelling and Analysis, 1998, 3, 104-113.	0.7	3
60	Superconvergence of Piecewise Polynomial Collocations for Nonlinear Weakly Singular Integral Equations. Journal of Integral Equations and Applications, 1997, 9, 379.	0.2	28
61	POLYNOMIAL SPLINE COLLOCATION METHOD FOR NONLINEAR TWOâ€DIMENSIONAL WEAKLY SINGULAR INTEGRAL EQUATIONS. Mathematical Modelling and Analysis, 1997, 2, 122-129.	0.7	1
62	The Smoothness of Solutions to Nonlinear Weakly Singular Integral Equations. Zeitschrift Fur Analysis Und Ihre Anwendung, 1994, 13, 463-476.	0.8	11